

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001513

A. CLASSIFICATION OF SUBJECT MATTER
IPC7 H01M-8/24 H01M-8/02

B. FIELDS SEARCHED IPC7 H01M

Minimum documentation searched (classification system followed by classification symbols) IPC7 H01M-8/24 H01M-8/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CA

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Canadian Patent Database and Delphion

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CA, C, 2198346 (BALLARD), 18 April 2000 (Entire Document)	1-22, 31 and 32
Y	CA, C, 2262189 (HONDA), 29 April 2003 (Entire Document)	1-22, 31 and 32
Y	CA, A1, 2422926 (DAIMLERCHRYSLER AG), 21 March 2003 (Entire Document)	1-22, 31 and 32
X Y	US, A1, 2002 / 00346673 (TOYOTA), 21 March 2002 (Figure 2)	1 2-22, 31 and 32
X Y	US, A1, 2002 / 0127453 (DAIDO), 12 September 2002 (Entire Document)	33 34 and 35
P,Y	US, A1, 2003 / 0180601 (NARUSE), 25 September 2003 (Abstractt)	23-30 and 33-35
P,Y	US, A1, 2003 / 0198846 (FRANKLIN), 23 October 2003 (Abstract)	33-35
P,Y	US, A1, 2004 / 0142223 (GENCELL), 22 July 2004 (Abstract)	33-35

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "T" later document published after the international filing date and not in conflict with the priority date and not in conflict with the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve

Date of the actual completion of the international-type search
15 December 2004 (15-12-2004)

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
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Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2198346	28-03-1996	AU684230 B2	04-12-1997
		AU3468295 A	09-04-1996
		CA2198346 A1	28-03-1996
		DE69503648D D1	27-08-1998
		DE69503648T T2	07-01-1999
		EP0783771 A1	16-07-1997
		US5484666 A	16-01-1996
		WO9609659 A1	28-03-1996

CA2262189	17-08-1999	CA2262189 A1	17-08-1999
		DE69916515D D1	27-05-2004
		DE69916515T T2	23-09-2004
		EP0936689 A1	18-08-1999
		JP11233132 A	27-08-1999
		US6258475 B1	10-07-2001

CA2422926	21-03-2003	AU1690002 A	02-04-2002
		CA2422926 A1	21-03-2003
		DE10047248 A1	18-04-2002
		EP1328995 A2	23-07-2003
		JP2004527872T T	09-09-2004
		US2004038102 A1	26-02-2004
		WO0225765 A2	28-03-2002

CA2353210 A1 20020119 [CA2353210]
JP2002124291 A 20020426 [JP2002124291]
US2002034673 A1 20020321 [US20020034673]
JP2002042853 A 20020208 [JP2002042853]
DE10135025 A1 20020328 [DE10135025]

JP2002270212 A 20020920 [JP2002270212]
CN1374714 A 20021016 [CN1374714]
US2002127453 A1 20020912 [US20020127453]
GB0205030 D0 20020417 [GB200205030]

TW582125 B 20040401 [TW-582125]
JP2003282126 A 20031003 [JP2003282126]
DE10312664 A1 20031009 [DE10312664]
CN1447472 A 20031008 [CN1447472]
US2003180601 A1 20030925 [US20030180601]
GB0303712 D0 20030319 [GB200303712]

WO03090303 A1 20031030 [WO200390303]
US2003198846 A1 20031023 [US20030198846]

WO2004064176 A2 20040729 [WO200464176]
US2004142223 A1 20040722 [US20040142223]